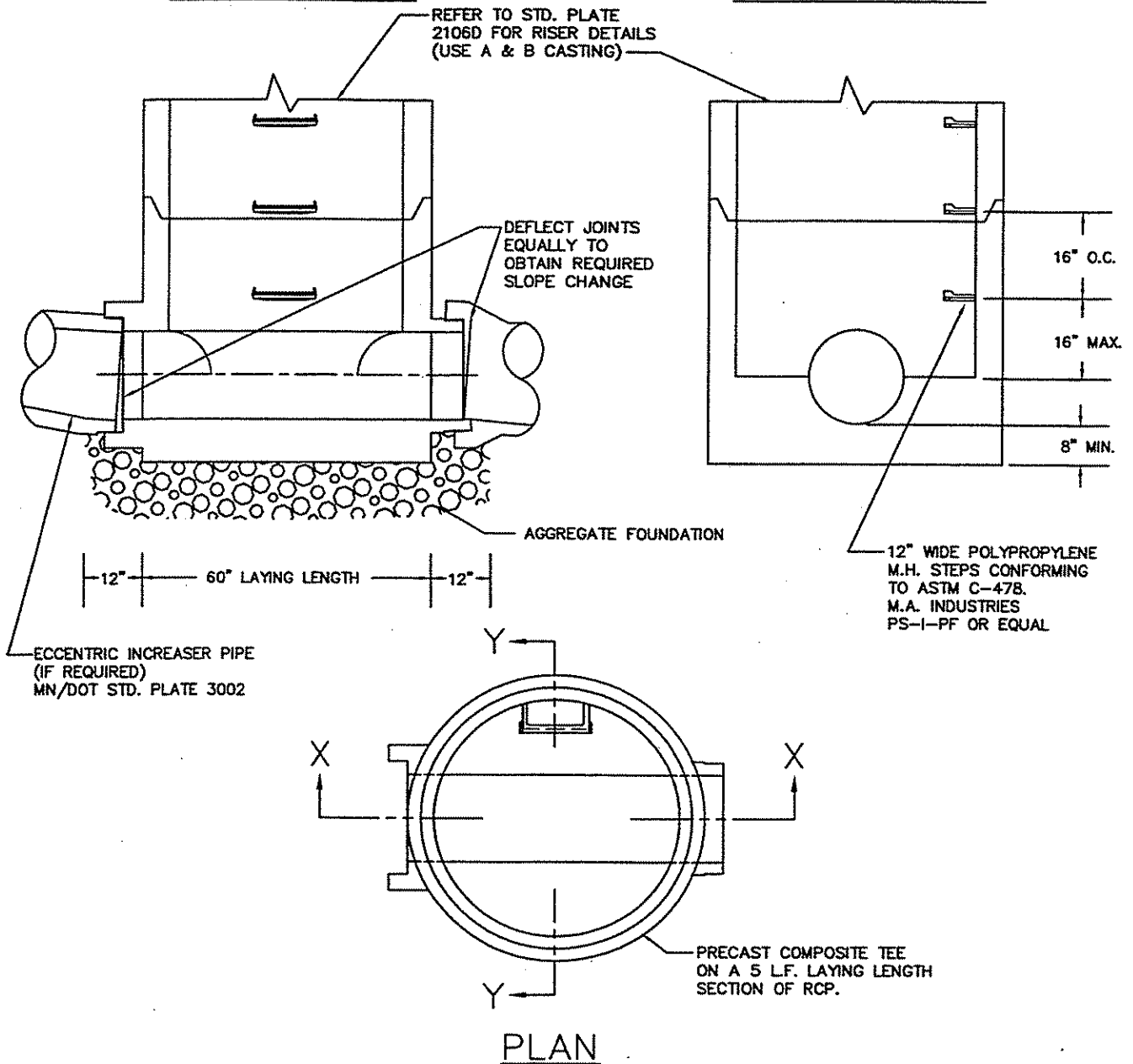


SECTION X-X

SECTION Y-Y



NOTES:

1. THIS MANHOLE FOR USE ON STRAIGHT RUNS OF MAINLINE SEWER 12" TO 36" I.D. SLOPE CHANGE CAN BE ACCOMPLISHED BY DEFLECTING JOINTS AS NOTED HEREIN. DIAMETER CHANGE CAN BE MADE WITH ASSOCIATED ECCENTRIC EXPANSION.
2. PRECAST RISER SECTIONS TO MEET ASTM C-478
3. JOINTS SHALL USE O-RING RUBBER GASKETS CONFORMING TO ASTM C-443
4. MAXIMUM JOINT DEFLECTION FROM "HOME" IS 3/4". CORRESPONDING MAXIMUM SLOPE CHANGE PER JOINT IS:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Joseph J. Mueller
JOSEPH J. MUELLER
Date 9-2-02 Lic. No. 13942

PIPE I.D.	12"	15"	18"	21"	24"	27"	30"	36"
SLOPE CHANGE/JOINT	6.2	5.0	4.1	3.6	3.1	2.7	2.5	2.0 %

APPROVED

CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS

MANHOLE, TYPE VI-CT

Date of
Revision

JULY
2002

Standard
Plate
No.

2109B